

## CLAIMS

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

1. A method of operating a motion video decoder for decoding compressed image data, said method including steps of  
determining a frame switch point in accordance with a signal corresponding to completion of decoding of a previous frame, and  
synchronizing said motion video decoder with a bottom border of a scaled image.

2. A method as recited in claim 1, comprising further steps of  
testing spill buffer capacity responsive to said signal to produce a test result, and  
controlling scaling in a decoding path of said decoder and altering decoder latency in response to said test result.

1       3. A method as recited in claim 2, including the  
2       further step of

3            reconfiguring a frame buffer to accommodate a  
4       increased latency of motion video data scaled in  
5       said decoding path.

1       4. A method as recited in claim 3, including the  
2       further step of

3            continuously scaling a motion video image from  
4       said motion video data scaled in said decodeing  
5       path.

1       5. A method as recited in claim 4, wherein said  
2       continuously scaling step is performed by  
3       interpolation.

1       6. A method as recited in claim 1, wherein decoder  
2       to display latency of reference motion video images  
3       is 1.5 frames and latency of interpolated motion  
4       video images is 0.5 frames.

1       7. A method as recited in claim 2, wherein said  
2       spill buffer has a capacity equal to or less than  
3       0.5 fields.

1       8. A method as recited in claim 2, wherein said  
2       spill buffer has a capacity equal to or less than  
3       one field.

1       9. A method of operating a motion video decoder  
2       comprising steps of  
3            testing spill buffer capacity responsive to a  
4            signal to produce a test result, and  
5            controlling scaling in a decoding path of a  
6       decoder and altering decoder latency in response to  
7       said test result.

1       10. A method as recited in claim 9, including the  
2       further step of  
3            reconfiguring a frame buffer to accommodate a  
4            increased latency of motion video data scaled in  
5       said decoding path.

1       11. A method as recited in claim 10, including the  
2       further step of  
3            continuously scaling a motion video image from  
4       said motion video data scaled in said decoding  
5       path.

1       12. A method as recited in claim 11, wherein said  
2       continuously scaling step is performed by  
3       interpolation.

1       13. A method as recited in claim 9, wherein decoder  
2       to display latency of reference motion video images  
3       is 1.5 frames and latency of interpolated motion  
4       video images is 0.5 frames when said testing step  
5       indicates spill buffer capacity is sufficient for  
6       selected scaling of said motion video.

1       14. A method as recited in claim 9, wherein said  
2       spill buffer has a capacity equal to or less than  
3       0.5 fields.

1       15. A method as recited in claim 10, wherein said  
2       spill buffer has a capacity equal to or less than  
3       one field.